

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

RECEIVED
OCT 14 2003
GROUP 1700

Claim 1 (currently amended) A toothbrush comprising:

a handle;

a toothbrush head distal to the handle; and

a multiplicity of ~~first-type~~ bristles, each of said bristles having a diameter ranging from about 0.25 mm to about 0.60 mm and being individually embedded in said toothbrush head; said bristles being mutually spaced apart from one another by a distance ranging from about 0.5 times to about 10 times the diameter of the bristles; said bristles further being grouped together in sections according to said diameter range, wherein each of said groups of bristles have varying diameters.

A
Claim 2 (original). A toothbrush according to Claim 1 further comprising at least one dense tuft of bristles.

Claim 3 (currently amended). A toothbrush according to Claim 1 wherein:

the ~~first-type~~ bristles comprise at least one group of bristles having a diameter from about 0.35 mm to about 0.60 mm and at least one group of bristles having a diameter of from about 0.25 mm to about ~~0.35~~ 0.34 mm.

Claim 4 (withdrawn). A toothbrush according to Claim 3 wherein the toothbrush head further comprises sections wherein:

the bristles are arranged such that at least one section of the toothbrush head contains bristles having diameters from about 0.35 mm to about 0.60 mm, while at least one section

of the toothbrush head contains first type bristles having diameters ranging from about 0.25 mm to about 0.35 mm.

Claim 5 (withdrawn). A toothbrush comprising:

a handle;

a toothbrush head distal to the handle;

at least one individually embedded second type bristle having a diameter of from about 0.08 mm to about 0.35 mm and a free length of from about 7 mm to about 16 mm; and

at least one third type bristle having a diameter of from about 0.15 mm to about 0.40 mm and a free length of from about 5 mm to about 14 mm; wherein the trim difference between the second type bristle and the third type bristle ranges from about 0.5 mm to about 3 mm.

Claim 6 (withdrawn). A toothbrush according to Claim 5 further comprising at least one section wherein:

the free lengths of the bristles within at least one section of the toothbrush head are varied such as to create a sawtooth cut profile.

Claim 7 (withdrawn). A toothbrush according to Claim 5 further comprising at least one section wherein:

the free lengths of the bristles within at least one section of the toothbrush head are varied such as to create a wave cut profile.

Claim 8 (withdrawn). A toothbrush according to Claim 5 further comprising at least one section wherein:

The free lengths of the bristles within at least one section of the toothbrush head are varied such as to create an arc cut profile.

Claim 9 (withdrawn). A toothbrush according to Claim 5 further comprising first sections and second sections wherein:

the first sections comprise second type bristles and the second sections comprise third type bristles and each of the first and second sections comprises from 1 to 7 rows of bristles.

Claim 10 (withdrawn). The toothbrush according to Claim 9 wherein:

the first sections are alternately spaced with the second sections.

Claim 11 (withdrawn). A toothbrush according to Claim 5 wherein:

the second and third type bristles are arranged to create an alternating wave pattern.

Claim 12 (withdrawn). A toothbrush according to Claim 5 wherein:

A¹
the second and third type bristles are arranged to create a pattern of a circle of second type bristles surrounding the third type bristles along a row.

Claim 13 (withdrawn). A toothbrush according to Claim 5 wherein:

the second and third type bristles are arranged to create a pattern of a hexagon of second type bristles surrounding a third type bristle.

Claim 14 (withdrawn). A toothbrush according to Claim 5 further comprising:

at least one fourth type bristle having a diameter of from about 0.15 mm to about 1.0 mm and a free length of from about 9 mm to about 15 mm arranged about the periphery of the toothbrush head.

Claim 15 (withdrawn). A toothbrush according to Claim 14 wherein:

the toothbrush contains a plurality of fourth type bristles arranged along the periphery of the toothbrush head; and

the height of the fourth type bristles alternates along the periphery of the toothbrush head to create an arc shaped form.

Claim 16 (withdrawn). A toothbrush according to Claim 14 wherein:

the toothbrush contains a plurality of fourth type bristles arranged along the periphery of the toothbrush head; and

the height of the fourth type bristles alternates along the periphery of the toothbrush head to create a sawtooth shaped form.

Claim 17 (withdrawn). A toothbrush according to Claim 14 wherein:

A¹
the toothbrush contains a plurality of fourth type bristles arranged along the periphery of the toothbrush head; and

the height of the fourth type bristles alternates along the periphery of the toothbrush head to create a wave shaped form.

Claim 18 (withdrawn). A toothbrush according to Claim 5 wherein:

the toothbrush contains a multiplicity of bristle diameters within the toothbrush head.

Claim 19 (withdrawn). A toothbrush according to Claim 5 wherein:

the toothbrush contains a multiplicity of bristle spacing within the toothbrush head.

Claim 20 (withdrawn). A toothbrush according to Claim 5 further comprising:

at least one dense tuft of bristles.

Claim 21 (withdrawn). A toothbrush comprising:

a handle;

a toothbrush head distal to the handle, the toothbrush head comprising a periphery and a distal end; and

bristles which are individually embedded in the toothbrush head and mutually spaced apart from one another by a distance from about 0.5 times to about 10 times the diameter of the bristles;

wherein the bristles comprise second type bristles having a diameter of from about 0.08 mm to about 0.35 mm and a free length of from about 7 mm to about 16 mm; third type bristles having a diameter of from about 0.15 mm to about 0.40 mm and a free length of from about 5 mm to 14 mm; fourth type bristles having a diameter of from about 0.15 mm to about 1.0 mm and a free length of from about 9 mm to about 15 mm arranged along the periphery of the toothbrush head; and a dense tuft of bristles at the distal end.

Claim 22 (currently amended). A toothbrush comprising:

a handle;

a toothbrush head distal to the handle;

a multiplicity of ~~first type~~ bristles, each of said bristles having a diameter ranging from about 0.25 mm to about 0.60 mm and being individually embedded in said toothbrush head; said bristles being mutually spaced apart from one another by a distance ranging from about 0.5 times to about 10 times the diameter of the bristles; said bristles further being grouped together according to said diameter range, wherein each of said groups of bristles have varying diameters; and at least one dense tuft of bristles.

Claim 23. (currently amended) A toothbrush according to Claim 22 wherein:

the ~~first type~~ bristles comprise at least one group of bristles having a diameter from about 0.35 mm to about 0.60 mm and at least one group of bristles having a diameter of from about 0.25 mm to about ~~0.35~~ 0.34 mm.

Claim 24. (original) A toothbrush according to claim 22 wherein the dense tuft of bristles has a shape selected from the group consisting of circle, square, oval, triangle, elongated rectangle, polygonal, half-moon, horseshoe, bar, stars, arc and combinations thereof.

Claim 25. (original) The toothbrush according to Claim 24 further comprising a distal dense tuft of bristles.

A1